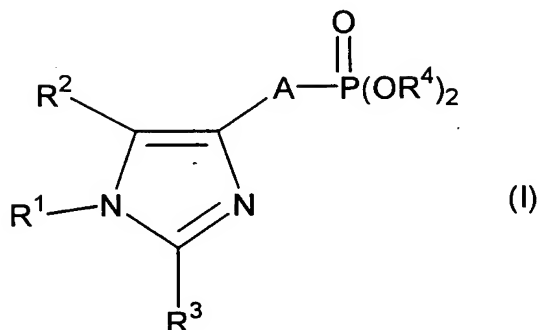


## CLAIMS

1. An imidazole alkylphosphonate of the general formula (I):



5

wherein;

R<sup>1</sup> is an amino-protecting group;

R<sup>2</sup> and R<sup>3</sup> are the same or different and are each a hydrogen atom, a lower alkyl group, or a hydroxy-(lower alkyl) group;

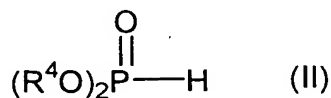
10

R<sup>4</sup> is a lower alkyl group, a halogenated lower alkyl group, or a substituted or unsubstituted phenyl group; and

A is an optionally substituted straight chain alkylene group having 1 - 3 carbon atoms.

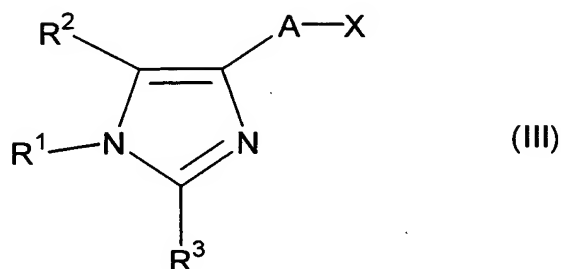
15

2. A method for the preparation of an imidazole alkylphosphonate of the general formula (I) in claim 1, characterized by reacting a phosphonate derivative of the general formula (II):



wherein  $R^4$  is as defined in claim 1,

with an imidazole derivative of the general formula (III):

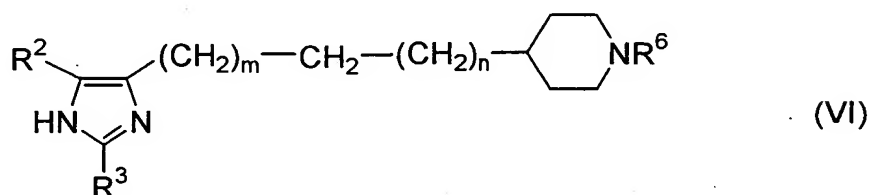


wherein;

5           X is a halogen atom, a methanesulfonyloxy group, or a p-toluenesulfonyloxy group; and

$R^1$ ,  $R^2$ ,  $R^3$ , and A are as defined in claim 1,  
in the presence of a base.

3. A method for the preparation of an imidazole  
10 derivative of the general formula (VI):



wherein;

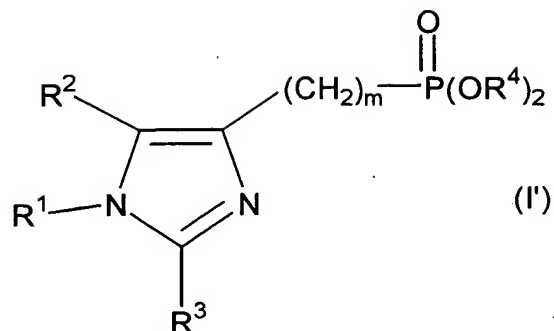
$R^2$  and  $R^3$  are as defined in claim 1;

m is an integer of 1 - 3;

15           n is an integer of 0 - 3; and

$R^6$  is a hydrogen atom or a lower alkyl group,

characterized by reacting an imidazole alkylphosphonate of  
the general formula (I'):

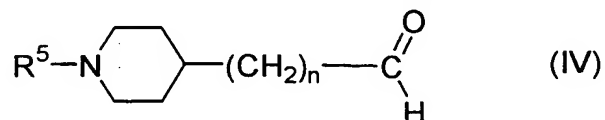


wherein;

$\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ , and  $\text{R}^4$  are as defined in claim 1; and

$m$  is as defined above,

5 with a piperidine compound of the general formula (IV):

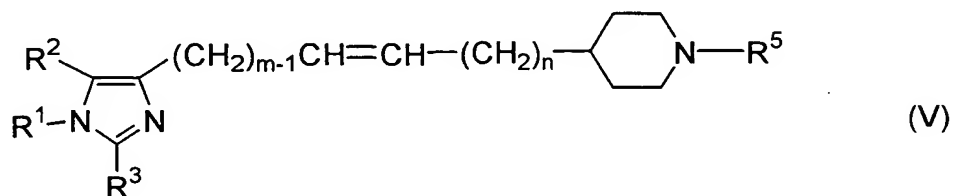


wherein;

$\text{R}^5$  is an amino-protecting group or a lower alkyl group; and

10  $n$  is as defined above,

to give a compound of the formula (V):



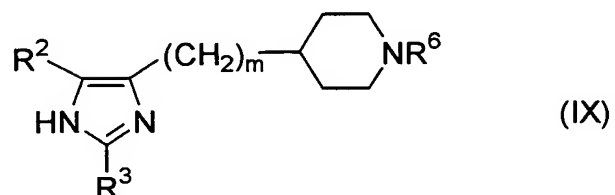
wherein;

$\text{R}^1$ ,  $\text{R}^2$ , and  $\text{R}^3$  are as defined in claim 1; and

15  $m$ ,  $\text{R}^5$ , and  $n$  are as defined above,

and then reducing said compound.

4. A method for the preparation of an imidazole derivative of the general formula (IX):



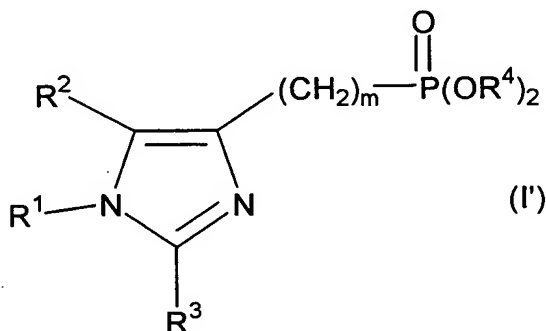
wherein;

5             $R^2$  and  $R^3$  are as defined in claim 1;

$m$  is an integer of 1 - 3;

$R^6$  is a hydrogen atom or a lower alkyl group,

characterized by reacting an imidazole alkylphosphonate of the general formula (I'):

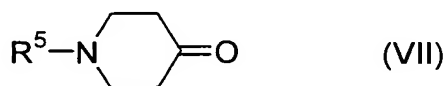


wherein;

$R^1$ ,  $R^2$ ,  $R^3$ , and  $R^4$  are as defined in claim 1; and

$m$  is as defined above,

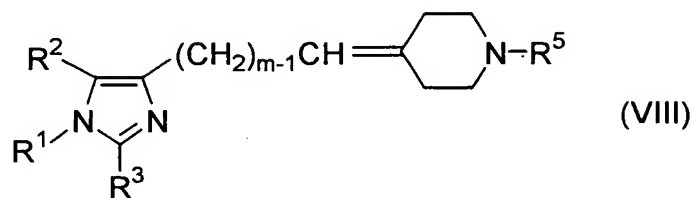
with a piperidone compound of the general formula (VII):



wherein  $R^5$  is an amino-protecting group or a lower alkyl

group,

to give a compound of the formula (VIII):



wherein;

5           R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> are as defined in claim 1; and

          m and R<sup>5</sup> are as defined above,

and then reducing said compound.